

DRAFT

**STATE OPERATING PERMIT
STATIONARY SOURCE PERMIT TO OPERATE**

This permit supersedes your permit dated February 12, 2003 and modified on February 5, 2007.

In compliance with the Federal Clean Air Act and the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution,

Commonwealth Laminating & Coating, Inc.
P.O. Box 4668
Martinsville, VA
Registration No.: 30972
County-Plant ID No.: 089-0111

is authorized to operate

a laminating and coating facility

located at

345 Beaver Creek Drive, Martinsville

in accordance with the Conditions of this permit.

Approved on DRAFT

Steven A. Dietrich, P.E.
Regional Director, Department of Environmental Quality

Permit consists of 13 pages.
Permit Conditions 1 to 43.

INTRODUCTION

This permit approval is based on the permit application dated November 29, 2007 and supplemental information dated December 5 and 12, 2007. Any changes in the permit application specifications or any existing facilities which alter the impact of the facility on air quality may require a permit. Failure to obtain such a permit prior to construction may result in enforcement action.

Words or terms used in this permit shall have meanings as provided in 9 VAC 5-10-10 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. The regulatory reference or authority for each condition is listed in parentheses () after each condition.

Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to requests by the Department of Environmental Quality (DEQ) or the State Air Pollution Control Board (Board) for information to include, as appropriate: process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact.

The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, §§ 2.2-3700 through 2.2-3714 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9 VAC 5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.

PROCESS REQUIREMENTS

1. **Equipment List** - Equipment at this facility consists of the following:

Equipment to be Constructed		
Equipment Description	Rated Capacity	Federal Requirements
Line 3 – Black Clawson Tandem Pressure Sensitive Adhesives Coater	200 fpm	None

Equipment permitted prior to the date of this permit			
Equipment Description	Rated Capacity	Federal Requirements	Original Permit Date
Line 1 – Gemik, Inc Pressure Sensitive Adhesive Coater	350 fpm	None	February 12, 2003 modified February 5, 2007
Line 2 - Black Clawson Tandem Pressure Sensitive Adhesives Coater	250 fpm	None	February 12, 2003 modified February 5, 2007

Specifications included in the permit under this Condition are for informational purposes only and do not form enforceable terms or conditions of the permit.

(9 VAC 5-80-850 F 3)

2. **Emission Controls – Line 1 PTE** – Volatile Organic Compound (VOC) emissions from Line 1 (wet and dryer sections) shall be controlled by a Permanent Total Enclosure (PTE) with 100% VOC capture efficiency. The PTE shall be provided with adequate access for inspection and shall be in operation when the coating line is operating.
 (9 VAC 5-50-260 and 9 VAC 5-80-850 C)
3. **Emission Controls – Line 1 RTO**– VOC emissions from the Line 1 wet section shall be controlled by a regenerative thermal oxidizer (RTO). The RTO shall maintain a destruction efficiency of at least 95%. The RTO shall maintain a minimum combustion zone temperature as determined during the most recent performance test that demonstrated at least 95% VOC capture and control. The RTO shall be provided with adequate access for inspection and shall be in operation when the coating line is operating.
 (9 VAC 5-50-260 and 9 VAC 5-80-850 C)
4. **Emission Controls – Line 1 Refrigerated Condenser** – VOC emissions from the Line 1 dryer section shall be controlled by a refrigerated condenser. The overall control efficiency (capture and control) shall be at least 95%. The refrigerated condenser shall be provided with adequate access for inspection and shall be in operation when the coating line is operating.
 (9 VAC 5-50-260 and 9 VAC 5-80-850 C)
5. **Emission Controls – Line 2 PTE** – VOC emissions from Line 2 (wet and dryer sections) shall be controlled by a Permanent Total Enclosure (PTE) with 100% VOC capture efficiency. The PTE shall be provided with adequate access for inspection and shall be in operation when the coating line is operating.
 (9 VAC 5-50-260 and 9 VAC 5-80-850 C)
6. **Emission Controls – Line 2 RTO**– VOC emissions from Line 2 (wet and dryer sections) shall be controlled by an RTO. The RTO shall maintain a destruction efficiency of at least

99%. The RTO shall maintain a minimum combustion zone temperature as determined during the most recent performance test that demonstrated at least 99% VOC capture and control. The RTO shall be provided with adequate access for inspection and shall be in operation when the coating line is operating.
(9 VAC 5-50-260 and 9 VAC 5-80-850 C)

7. **Emission Controls – Line 3 PTE** – VOC emissions from Line 3 (wet and dryer sections) shall be controlled by a Permanent Total Enclosure (PTE) with 100% VOC capture efficiency. The PTE shall be provided with adequate access for inspection and shall be in operation when the coating line is operating.
(9 VAC 5-50-260, 9 VAC 5-80-850 C and 9 VAC 5-80-1180 C)
8. **Emission Controls – Line 3 RTO**– VOC emissions from Line 3 (wet and dryer sections) shall be controlled by an RTO. The RTO shall maintain a destruction efficiency of at least 99%. The RTO shall maintain a minimum combustion zone temperature as determined during the most recent performance test that demonstrated at least 99% VOC capture and control. The RTO shall be provided with adequate access for inspection and shall be in operation when the coating line is operating.
(9 VAC 5-50-260, 9 VAC 5-80-850 C and 9 VAC 5-80-1180 C)
9. **Emission Controls – Mixing Room**– VOC emissions from the Mixing Room shall be controlled by the Line 3 RTO. The RTO shall be provided with adequate access for inspection and shall be in operation when mixing operations are occurring.
(9 VAC 5-50-260, 9 VAC 5-80-850 C and 9 VAC 5-80-1180 C)
10. **Emission Controls – Cleaning** – All cleaning operations associated with the coating lines and mixing room shall be conducted inside a PTE or the Mixing Room and the emissions shall be controlled by an RTO.
(9 VAC 5-50-260, 9 VAC 5-80-850 C and 9 VAC 5-80-1180 C)
11. **VOC Work Practice Standards** – At all times the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution practices for minimizing emissions.
(9 VAC 5-50-20 F, 9 VAC 5-80-850 and 9 VAC 5-80-1180)
12. **Monitoring Devices** – Each PTE (See Conditions 2, 5 and 7) shall be equipped with a device to continuously measure the differential pressure across the PTE. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for

inspection and shall be in operation when the coating line that each PTE is controlling is operating.

(9 VAC 5-50-50, 9 VAC 5-80-1180 D, 9 VAC 5-80-850 F and 9 VAC 5-80-890)

13. **Monitoring Device Observation** – To ensure good performance, the monitoring device used to continuously measure the differential pressure drop across each PTE shall be observed by the permittee with a frequency of not less than once per shift. The permittee shall keep a log of the observations or continuously record measurements from the monitoring device.

(9 VAC 5-80-850 and 9 VAC 5-80-1180 D)

14. **Monitoring Devices & Observations** – Each RTO (See Conditions 3, 6 and 8) shall be equipped with a device to continuously measure and record oxidizer chamber temperature. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the coating line that each RTO is controlling is operating.

(9 VAC 5-50-50, 9 VAC 5-80-850 F, 9 VAC 5-80-890 and 9 VAC 5-80-1180 D)

15. **Monitoring Devices & Observations – Line 1 Refrigerated Condenser** – The Line 1 refrigerated condenser shall have monitoring devices to measure the Condenser Coil Temperature, Supply and Return Temperature and Receiver Temperature. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the refrigerated condenser is operating. Each monitoring device shall be observed by the permittee with a frequency of not less than once per shift. The permittee shall keep a log of the observations or continuously record measurements from the monitoring devices.

(9 VAC 5-50-50, 9 VAC 5-80-850 and 9 VAC 5-80-890)

16. **Emissions Testing** - The facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility/equipment such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested and safe sampling platforms and access shall be provided.

(9 VAC 5-50-30, 9 VAC 5-80-850 and 9 VAC 5-80-880)

OPERATING LIMITS

17. **Throughput – Line 1-** The throughput of VOCs through Line 1 shall not exceed 498 tons per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-850)
18. **Throughput – Line 1-** The throughput of Toluene through Line 1 shall not exceed 71 tons per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-850)
19. **Throughput – Line 2-** The throughput of VOCs through Line 2 shall not exceed 919 tons per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-850)
20. **Throughput – Line 2-** The throughput of Toluene through Line 2 shall not exceed 330 tons per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-850)
21. **Throughput – Line 3-** The throughput of VOCs through Line 3 shall not exceed 735 tons per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-850 and 9 VAC 5-80-1180)
22. **Throughput – Line 3-** The throughput of Toluene through Line 3 shall not exceed 260 tons per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-850 and 9 VAC 5-80-1180)
23. **Fuel** - The approved fuel for all dryers and each RTO is natural gas. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-50-260 and 9 VAC 5-80-850)

EMISSION LIMITS

24. **Process Emission Limits** - Emissions from the following operations shall not exceed the limits specified below:

Volatile Organic Compounds	Line 1	7.3 lbs/hr	26.1 tons/yr
	Line 2	3.0 lbs/hr	10.8 tons/yr
	Line 3	2.4 lbs/hr	8.7 tons/yr
Toluene	Line 1		3.56 tons/yr
	Line 2		3.30 tons/yr
	Line 3		2.60 tons/yr

Line 3 VOC and Toluene emission limits include Mixing Room emissions since both emission streams are controlled by the same RTO.

These emissions are derived from the estimated overall emission contribution from the Operating Limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 17, 18, 19, 20, 21 and 22.
(9 VAC 5-50-260, 9 VAC 5-80-850 and 9 VAC 5-80-1180)

25. **Facility wide Emission Limits** - Total emissions from the facility shall not exceed the limits specified below:

Volatile Organic Compounds	12.8 lbs/hr	45.6 tons/yr
Any Individual Hazardous Air Pollutant		9.5 tons/yr
Combination of all Hazardous Air Pollutants		24.5 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition number 17, 18, 19, 20, 21 and 22.
(9 VAC 5-50-260, 9 VAC 5-80-850 and 9 VAC 5-80-1180)

26. **Visible Emission Limit** - Visible emissions from each coating line (Lines 1, 2 and 3) shall not exceed 5 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-50-80, 9 VAC 5-50-260, 9 VAC 5-80-850 and 9 VAC 5-80-1180)

CONTINUING COMPLIANCE

27. **Stack Tests** - Upon request by the DEQ, the permittee shall conduct performance tests to demonstrate compliance with the emission limits contained in this permit. The details of the tests shall be arranged with the Air Compliance Manager, West Central Regional Office.
(9 VAC 5-50-30 G and 9 VAC 5-80-880)
28. **Visible Emissions Evaluations** - Upon request by the DEQ, the permittee shall conduct visible emission evaluations to demonstrate compliance with the visible emission limits

contained in this permit. The details of the tests shall be arranged with the Air Compliance Manager, West Central Regional Office.
(9 VAC 5-50-30 G and 9 VAC 5-80-880)

INITIAL COMPLIANCE DETERMINATION

29. **Initial Performance Tests** - Initial performance tests shall be conducted for destruction efficiency from the RTO controlling emissions from Line 3 and the Mixing Room to determine compliance with the destruction efficiency specified in Condition No. 8 and emission limits specified in Condition No. 24. The test shall be performed, and demonstrate compliance within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after start-up of the affected unit. Tests shall be conducted and reported and data reduced as set forth in Section 9 VAC 5-50-30 of State Regulations. The details of the tests are to be arranged with the Air Compliance Manager, West Central Region. The permittee shall submit a test protocol at least thirty (30) days prior to testing. One copy of the test results shall be submitted to the Air Compliance Manager, West Central Region within 45 days after test completion and shall conform to the test report format enclosed with this permit.
(9 VAC 5-50-30, 9 VAC 5-80-880 and 9 VAC 5-80-1200)
30. **Initial Visible Emission Evaluations** - Concurrently with the initial performance tests, Visible Emission Evaluations (VEE) in accordance with 40 CFR, Part 60, Appendix A, Method 9, shall be conducted on the Line 3 RTO exhaust. The evaluation shall consist of thirty (30) sets of twenty-four (24) consecutive observations (at fifteen (15) second intervals) to yield a six (6) minute average. The details of the tests are to be arranged with the Air Compliance Manager, West Central Region. The permittee shall submit a test protocol at least 30 days prior to testing. The evaluation shall be conducted within 60 days of achieving the maximum production rate but in no event later than 180 days after start-up of the affected unit. Should conditions prevent concurrent opacity observations, the Air Compliance Manager, West Central Region shall be notified in writing, within seven (7) days, and visible emissions testing shall be rescheduled within thirty (30) days. Rescheduled testing shall be conducted under the same operating conditions (as possible) as the initial performance tests. One copy of the test results shall be submitted to the Air Compliance Manager, West Central Region within 45 days after test completion and shall conform to the test report format enclosed with this permit.
(9 VAC 5-50-30, 9 VAC 5-80-880 and 9 VAC 5-80-1200)
31. **Initial Performance Tests** – An initial performance test shall be conducted for VOC capture efficiency for the permanent total enclosure to determine compliance with the capture efficiency specified in Condition No. 7. The test shall be performed, and demonstrate compliance, within 60 days of achieving the maximum production rate but in no event later than 180 days after start-up of the affected unit. Tests shall be conducted and reported and data reduced as set forth in Section 9 VAC 5-50-30 of State Regulations. The details of the

tests are to be arranged with the Air Compliance Manager, West Central Region. The permittee shall submit a test protocol at least thirty (30) days prior to testing. One copy of the test results shall be submitted to the Air Compliance Manager, West Central Region within 45 days after test completion and shall conform to the test report format enclosed with this permit.
(9 VAC 5-50-30 and 9 VAC 5-80-1200)

RECORDKEEPING AND REPORTING

32. **On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Air Compliance Manager, West Central Regional Office. These records shall include, but are not limited to:
- a. Annual throughput of VOCs and individual HAPs for each line, calculated monthly as the sum of each consecutive 12-month period;
 - b. Annual quantity of VOCs recovered from the refrigerated condenser associated with Line 1 in tons, calculated monthly as the sum of each consecutive 12-month period;
 - c. Annual emissions of VOCs and individual HAPs for each line and for the entire facility, calculated monthly as the sum of each consecutive 12-month period using calculation methods approved by the Air Compliance Manager, West Central Regional Office;
 - d. Material Safety Data Sheets (MSDS) or Certified Product Data Sheets showing VOC content, HAP content, water content and density for each coating, adhesive, thinner and cleaning solution used at the facility;
 - e. Annual throughput in gallons or pounds of each coating, adhesive, thinner, and cleaning solution used on Line 1, Line 2 and Line 3. Annual throughputs for each line shall be calculated monthly as the sum of each consecutive 12-month period;
 - f. Operation and control device monitoring records for the control devices and PTEs as required in Conditions 13, 14 and 15;
 - g. Records of performance tests as required by Conditions 27, 28, 29, 30 and 31;
 - h. Scheduled and unscheduled maintenance and operator training as required in Condition 39; and
 - i. Records of equipment malfunction or control device bypass as required in Condition 40.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-50-50, 9 VAC 5-80-900 and 9 VAC 5-80-1180)

33. Reports for Facility or Control Equipment Malfunction – Within 30 days of a failure or malfunction that is expected to exist for 30 days or more, and semi-monthly thereafter until the failure or malfunction is corrected, the permittee shall furnish written reports to the Air Compliance Manager, West Central Regional Office containing the following:

- a. Identification of the specific facility that is affected as well as its location and registration number;
- b. The expected length of time that the air pollution control equipment will be out of service;
- c. The nature and quantity of air pollutant emissions likely to occur during the breakdown period;
- d. Measures taken to reduce the emissions to the lowest amount practicable during the breakdown period;
- e. A statement as to why the owner was unable to obtain parts or perform repairs that which would allow compliance with the provisions of these regulations within 30 days of the malfunction or failure;
- f. An estimate, with reasons given, of the duration of the shortage of repairs or repair parts which would allow compliance with the provisions of these regulations; and
- g. Any other pertinent information as may be requested by the board.

(9 VAC 5-20-180D, 9 VAC 5-50-50, 9 VAC 5-80-1180 and 9 VAC 5-80-850)

NOTIFICATIONS

34. Initial Notifications - The permittee shall furnish written notification to the Air Compliance Manager, West Central Regional Office of:

- a. The actual date on which construction of Line 3 commenced within 30 days after such date;
- b. The actual start-up date of Line 3 within 15 days after such date; and

- c. The anticipated date of performance tests of the Line 3 RTO postmarked at least 30 days prior to such date.

(9 VAC 5-50-50 and 9 VAC 5-80-850)

35. Notification for Control Equipment Maintenance - The permittee shall furnish notification to the Air Compliance Manager, West Central Regional Office of the intention to shut down or bypass, or both, air pollution control equipment for necessary scheduled maintenance, which results in excess emissions for more than one hour, at least 24 hours prior to the shutdown. The notification shall include, but is not limited to, the following information:

- a. Identification of the air pollution control equipment to be taken out of service, as well as its location, and registration number;
- b. The expected length of time that the air pollution control equipment will be out of service;
- c. The nature and quantity of emissions of air pollutants likely to occur during the shutdown period; and
- d. Measures that will be taken to minimize the length of the shutdown or to negate the effect of the outage.

(9 VAC 5-20-180 B and 9 VAC 5-80-850)

36. Notification for Facility or Control Equipment Malfunction - The permittee shall furnish notification to the Air Compliance Manager, West Central Regional Office of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by facsimile transmission, telephone or telegraph. Such notification shall be made as soon as practicable but no later than four daytime business hours after the malfunction is discovered. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the breakdown, within two weeks of discovery of the malfunction. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Air Compliance Manager, West Central Regional Office.

(9 VAC 5-20-180 C, 9 VAC 5-40-50 and 9 VAC 5-80-850)

GENERAL CONDITIONS

37. Permit Suspension/Revocation - This permit may be revoked if the permittee:

- a. Knowingly makes material misstatements in the permit application or any amendments to it;

- b. Fails to comply with the terms or conditions of this permit;
- c. Fails to comply with any emission standards applicable to a permitted emissions unit;
- d. Causes emissions from this facility which result in violations of, or interferes with the attainment and maintenance of, any ambient air quality standard;
- e. Fails to operate this facility in conformance with any applicable control strategy, including any emission standards or emission limitations, in the State Implementation Plan in effect at the time that an application for this permit is submitted; or
- f. Fails to comply with the applicable provisions of Articles 6, 8 and 9 of 9 VAC 5 Chapter 80.

(9 VAC 5-80-1010 and 9 VAC 5-80-1210)

38. Right of Entry - The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:

- a. To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;
- b. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;
- c. To inspect at reasonable times any facility, equipment, or process subject to the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and
- d. To sample or test at reasonable times.

For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.

(9 VAC 5-170-130)

39. Maintenance/Operating Procedures – At all times, including periods of start-up, shutdown and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.

The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance;
- b. Maintain an inventory of spare parts;
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum; and
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.

(9 VAC 5-50-20 E, 9 VAC 5-80-850 and 9 VAC 5-80-1180 D)

40. **Record of Malfunctions** – The permittee shall maintain records of the occurrence and duration of any bypass, malfunction, shutdown or failure of the facility or its associated air pollution control equipment that results in excess emissions for more than one hour. Records shall include the date, time, duration, description (emission unit, pollutant affected, cause), corrective action, preventive measures taken and name of person generating the record.
(9 VAC 5-20-180 J)
41. **Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.
(9 VAC 5-20-180 I, 9 VAC 5-80-850 and 9 VAC 5-80-1180 A)
42. **Change of Ownership** - In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current permit issued to the previous owner. The new owner shall notify the Regional Director, West Central Regional Office of the change of ownership within 30 days of the transfer.
(9 VAC 5-80-940 and 9 VAC 5-80-1240)
43. **Permit Copy** - The permittee shall keep a copy of this permit on the premises of the facility to which it applies.
(9 VAC 5-80-860 D)

SOURCE TESTING REPORT FORMAT

Report Cover

1. Plant name and location.
2. Units tested at source (indicate Ref. No. used by source in permit or registration).
3. Test Dates.
4. Tester; name, address and report date.

Certification

1. Signed by team leader/certified observer (include certification date).
2. Signed by responsible company official.
3. *Signed by reviewer.

Copy of approved test protocol

Summary

1. Reason for testing
2. Test dates
3. Identification of unit tested & the maximum rated capacity.
4. *For each emission unit, a table showing:
 - a. Operating rate
 - b. Test Methods
 - c. Pollutants tested
 - d. Test results for each run and the run average.
 - e. Pollutant standard or limit.
5. Summarized process and control equipment data for each run and the average, as required by the test protocol.
6. A statement that test was conducted in accordance with the test protocol or identification & discussion of deviations, including the likely impact on results.
7. Any other important information.

Source Operation

1. Description of process and control devices.
2. Process and control equipment flow diagram.
3. Sampling port location and dimensioned cross section. Attached protocol includes: sketch of stack (elevation view) showing sampling port locations, upstream and downstream flow disturbances and their distances from ports; and a sketch of stack (plan view) showing sampling ports, ducts entering the stack and stack diameter or dimensions.

Test Results

1. Detailed test results for each run.
2. *Sample calculations
3. *Description of collected samples, to include audits when applicable.

Appendix

1. *Raw production data
2. *Raw field data
3. *Laboratory reports
4. *Chain of custody records for lab samples.
5. *Calibration procedures and results.
6. Project participants and titles
7. Observers' names (industry and agency)
8. Related correspondence
9. Standard procedures

*Not applicable to visible emission evaluations.